



## 7309 BECAP Angular contact ball bearings, single row

- SKF Explorer

### Angular contact ball bearings, single row

#### Bearing data

[Tolerances](#),

Normal (metric), P6, P5, Normal (inch),

[Internal clearance](#),

CA+CB+CC, G,

[Preload](#),

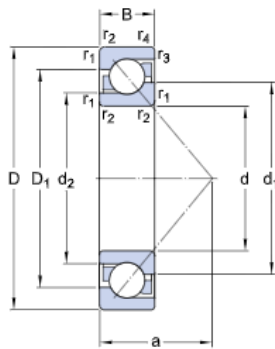
GA+GB+GC

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

## Technical specification



### DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d1	≈ 66.5 mm	Shoulder diameter inner ring (large side face)
d2	≈ 55.25 mm	Shoulder diameter inner ring (small side face)
D1	≈ 79.9 mm	Shoulder diameter outer ring (large side face)
a	43 mm	Distance pressure point
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension
r <sub>3,4</sub>	min. 1 mm	Chamfer dimension outer ring small side face

### ABUTMENT DIMENSIONS

d <sub>e</sub>	min. 54 mm	Abutment diameter shaft
D <sub>i</sub>	max. 91 mm	Abutment diameter housing
D <sub>j</sub>	max. 94.4 mm	Abutment diameter housing
r <sub>a</sub>	max. 1.5 mm	Fillet radius
r <sub>b</sub>	max. 1 mm	Fillet radius



## CALCULATION DATA

C	61 kN	Basic dynamic load rating
C <sub>0</sub>	40.5 kN	Basic static load rating
P <sub>u</sub>	1.73 kN	Fatigue load limit
	8 500 r/min	Reference speed
	9 000 r/min	Limiting speed
A	0.027	Calculation factor
k <sub>r</sub>	0.1	Calculation factor
e	1.14	Calculation factor

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

X	0.35	Calculation factor
Y <sub>0</sub>	0.26	Calculation factor
Y <sub>2</sub>	0.57	Calculation factor

## BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

X	0.57	Calculation factor
Y <sub>0</sub>	0.52	Calculation factor
Y <sub>1</sub>	0.55	Calculation factor
Y <sub>2</sub>	0.93	Calculation factor